## **DESIGNING AND DEVELOPING A MOBILE** Aging, Community and Health HEALTH APPLICATION TO SUPPORT COMMUNITY-BASED RESEARCH UNIT STROKE REHABILITATION: MY STROKE TEAM (MYST) Nancy Matthew-Maich, Maureen Markle-Reid, Duane Bender, Christy Taberner, Jenny Ploeg, Ruta Valaitis, Amiram Gafni, Lauren Harris University School of Nursing AGING, COMMUNITY AND HEALTH RESEARCH UNIT (ACHRU), McMASTER UNIVERSITY THE GOAL: To collaboratively THE PROCESS: **User-Centered** design and build a Design User-Centred mobile application Design Desig to support community-based stroke rehabilitation Adapt IDENTIFY Aging population and limited resources highlights the TA THE need for more efficient and effective home care delivery PROBLEM to stroke survivors with multiple chronic conditions. Understand the user, review stroke best practices and current trends in the mobile health technology WE GAINED INSIGHTS FROM: 1 23 KEY STAKEHOLDERS: those involved in policy and 2 41 HEALTH CARE PROVIDERS, including Homecare practice of stroke rehabilitation in Canada, including Coordinators, Registered Nurses, Occupational Therapists, Speech-Language Pathologists, and Personal Support those from community care access centres, community [RESEARCH] organizations and healthcare provider organizations Workers **THEY IDENTIFIED 4 CHALLENGES:** 1 No consistent means for 2 Inconsistent tracking 3 Limited point-of-care 4 Increased potential communicating within of patient progress access to resources for safety risks the homecare team Together we designed and built MYST: A web based portal to support home care providers and stroke survivors by enabling: 2 Tools to record evidence-3 Online mobile access to 4 Alerts to healthcare 1 Real-time, secure informed safety community resources providers regarding [DESIGN] communication within the full circle of care and best practice client status change. assessments. including the patient guidelines for stroke and their family. care. [ADAPT] Usability testing was performed iteratively with end-users to improve the intuitive design and functionality of the navigation Copyright © 2014 by ACHRU NEXT STEP: MYST will be evaluated in an upcoming pilot study to evaluate its acceptability, feasibility and usability [MEASURE] as part of a 6-month community navigation and rehabilitation intervention for stroke survivors with multiple chronic

conditions using home care services.